

therefor.

Page 41-48, delete the Sequence Listing and replace it with the enclosed Sequence Listing pages 41-53.

In the Claims:

Please amend claims 1, 4, 5, and 10-12 as follows:

1. (once amended) A purified BMP-8 protein comprising at least one of the following sequences:

- a) Arg-His-Glu-Leu-Tyr-Val-Ser-Phe-Gln-Asp-Leu-Gly-Trp-Leu-Asp-Trp-Val-Ile-Ala-Pro-Gln-Gly-Tyr (SEQ ID NO: 1);
- b) Leu-Ser-Ala-Thr-Ser-Val-Leu-Tyr-Tyr-Asp-Ser-Ser-Asn-Asn-Val-Ile-Leu-Arg (SEQ ID NO: 2);
- c) Ala-Cys-Cys-Ala-Pro-Thr-Lys (SEQ ID NO: 3);
- d) Thr-Asn-Glu-Leu-Pro-Pro-Pro-Asn-Lys-Leu-Pro-Gly-Ile-Phe-Asp-Asp-Val-His-Gly-Ser-His-Gly-Arg (SEQ ID NO: 4); and
- e) amino acid #[143] 4 (Ala) to #[281] 142 (His) of [Figure 2] SEQ ID NO:14.

4. (once amended) A purified BMP-8 protein comprising amino acid #[143] 4 to #[281] 142 of [Figure 2] SEQ ID NO:14.

64 5. (once amended) A BMP-8 polypeptide sequence comprising amino acid #[1]-139 - #[281]
142 of [Figure 2] SEQ ID NO:14.

10. (once amended) A purified BMP-8 protein produced by the steps of:

✓ (a) culturing a cell transformed with a vector comprising a DNA sequence [of claim
6] selected from the group consisting of

65 i) GTG CAC CTG CTG AAG CCG CAC GCG GTC CCC AAG GCG TGC
TGC GCG CCC ACC AAG CTG AGC GCC ACT TCC GTG CTC TAC
TAC GAC AGC AGC AAC AAC GTC ATC CTG CGC AAG CAC
CGC AAC ATG GTG GTC CGC GCC TGC GGC TGC CAC (SEQ ID
NO: 7);

ii) GAC TGG GTC ATC GCC CCC CAA GGC TAC TCA GCC TAT TAC
TGT GAA GGG GAG TGC TCC TTC CCG CTG GAC TCC TGC ATG
AAC GCC ACC AAC CAC GCC ATC CTG CAG TCC CTG (SEQ ID
NO: 9);

iii) GAC GTC CAC GGC TCC CAC GGC CGG CAG GTG TGC CGT CGG
CAC GAG CTG AGC TTC CAG GAC CTG GGC TGG CTG (SEQ ID
NO: 11);

iv) the nucleotide sequence comprising nucleotide #8 through #850 of SEQ
ID NO:13; and

v) the nucleotide sequence comprising nucleotide #434 (GCA) through #850

(CAC) of SEQ ID NO:13

said DNA sequence in operative association with an expression control sequence therefor; and

(b) recovering, isolating and purifying from said culture medium a protein characterized by the ability to induce cartilage and/or bone formation.

11. (once amended) A purified protein produced by the steps of:

(a) culturing a cell transformed with a vector containing the DNA sequence [of claim 9] of ATCC #75010 encoding BMP-8 said sequence in operative association with an expression control sequence therefor; and

(b) recovering, isolating and purifying from said culture medium a BMP-8 protein characterized by the ability to induce cartilage and/or bone formation.

12. (once amended) A purified BMP-8 protein produced by the steps of

(a) culturing a cell transformed with a vector [having a] comprising the DNA sequence of [claim 7] #8 through #850 of SEQ ID NO:13 said DNA sequence in operative association with an expression control sequence therefore; and

(b) recovering, isolating, and purifying from said culture medium a protein characterized by an amino acid sequence comprising amino acid #143 to #281 of Figure 2.